

AMENDMENTS TO THE CLAIMS

The listing of claims below replaces all prior versions, and listings, of claims:

- 1 1. (Original) A system comprising:
2 an interface to a network;
3 a first operational element to perform one or more tasks in the system;
4 a storage element containing a flag to indicate if a fault has occurred with
5 the first operational element; and
6 a backup device to enable access of the network through the interface in
7 response to the flag indicating failure of the first operational element.

- 1 2. (Original) The system of claim 1, wherein the first operational element
2 comprises a disk drive.

- 1 3. (Currently Amended) The system of claim 1, wherein the interface
2 comprises a network stack having an Internet Protocol (IP) layer, wherein the backup
3 device comprises a backup storage element containing a backup routine adapted to
4 perform communications through the ~~interface~~ network stack including the IP layer to the
5 network.

- 1 4. (Original) The system of claim 3, wherein the backup routine comprises a
2 browser.

- 1 5. (Original) The system of claim 3, wherein the first operational element
2 comprises a first disk drive, and wherein the backup storage element comprises a second
3 disk drive separate from the first disk drive.

- 1 6. (Original) The system of claim 5, wherein the second disk drive has a
2 smaller storage capacity than the first disk drive.

1 7. (Currently Amended) The system of claim ~~[[1]]~~ 3, wherein the backup
2 storage element comprises non-volatile memory.

1 8. (Previously Presented) The system of claim 1, wherein the first
2 operational element comprises a disk drive having plural partitions, and wherein the
3 backup device comprises one of the partitions.

1 9. (Currently Amended) The system of claim 1, wherein the backup ~~storage~~
2 ~~element~~ device comprises a removable disk drive.

1 10. (Original) The system of claim 1, the backup device to retrieve user data
2 and software over the network to recover the system.

1 11. (Original) The system of claim 1, wherein the first operational element
2 comprises a storage element, the backup device to retrieve an image of the storage
3 element to recover the storage element to its operational state.

1 12. (Currently Amended) A method of performing error recovery in a system,
2 comprising:
3 detecting if an operating portion of the system has experienced a fault;
4 accessing a backup device to enable communication through a network
5 stack including an Internet Protocol (IP) layer over a network;
6 retrieving data through the network stack including the IP layer over the
7 network, the data comprising an image containing user data and an operating system; and
8 recovering the system using the image.

1 13. (Original) The method of claim 12, further comprising loading a backup
2 software routine from the backup device.

1 14. (Currently Amended) The method of claim 13, wherein the backup
2 software routine comprises a browser, the method further comprising executing the
3 browser to access the network through the network stack including the IP layer to retrieve
4 the data.

1 15. (Original) The method of claim 13, further comprising executing the
2 backup software routine to access the network.

1 16. (Original) The method of claim 12, wherein retrieving the data comprises
2 retrieving the data from a backup storage system coupled to the network.

1 17. (Cancelled)

1 18. (Currently Amended) A method of performing recovery in a system
2 having a main storage device and a backup storage device, comprising:
3 booting from a backup storage device instead of the main storage device if
4 the system has experienced a fault;
5 using the backup storage device to enable communications through a
6 network stack including an Internet Protocol (IP) layer over a network to retrieve an
7 image to recover the system, wherein the image comprises user data and an operating
8 system.

1 19. (Currently Amended) The method of claim 18, further comprising loading
2 a routine from the backup storage device to enable the network communication through
3 the network stack including the IP layer.

1 20. (Original) The method of claim 19, wherein loading the routine comprises
2 loading a browser.

1 21. – 23. (Canceled)

1 24. (Previously Presented) The method of claim 12, further comprising:
2 in response to the fault, scanning a storage device to determine portions of
3 the storage device that are defective; and
4 storing the image in portions of the storage device other than the portions
5 that are defective.

1 25. (Previously Presented) The method of claim 12, further comprising:
2 setting a flag in response to detecting the operating portion of the system
3 has experienced a fault; and
4 a BIOS routine to detect whether the flag has been set.

1 26. (Previously Presented) The method of claim 25, further comprising the
2 BIOS routine to access the backup device to load a routine for communicating over the
3 network in response to detecting that the flag has been set.

1 27. (Cancelled)

1 28. (Currently Amended) ~~The article of claim 27, wherein the instructions~~
2 ~~when executed cause the system to:~~ An article comprising at least one storage medium
3 containing instructions that when executed cause a system to:
4 detect if an operating portion of the system has experienced a fault;
5 access a backup device to enable communication over a network;
6 retrieve data to recover the system over the network;
7 in response to the fault, scan a storage device to identify portions of the
8 storage device that are defective;
9 store the retrieved data in portions of the storage device other than the
10 portions that are identified to be defective by the scan,
11 wherein retrieving the data comprises retrieving an image containing user
12 data and operating system software;
13 set a flag in response to the fault, the flag to indicate that the system has
14 experienced the fault;
15 load a BIOS routine to detect whether the flag is set; and
16 cause the BIOS routine to load a second routine in response to detecting
17 the flag is set, the second routine to retrieve the data to recover the system over the
18 network.

1 29. (Currently Amended) A system comprising:
2 a main storage device;
3 a backup storage device;
4 a network stack including an Internet Protocol (IP) layer;
5 a first routine executable to boot from the backup storage device in case of
6 a system fault,
7 the backup storage device enabling access over a network through the
8 network stack including the IP layer to retrieve data from a network node to recover the
9 system, and
10 a second routine to identify portions of the main storage device that are
11 defective, and to store the retrieved data in portions of the main storage device that are
12 not defective,
13 wherein the retrieved data comprises image data containing user data and
14 operating system software.

1 30. (Previously Presented) The system of claim 1, further comprising a BIOS
2 routine to detect a state of the flag, the BIOS routine to access the backup device in
3 response to detecting that the flag indicates the fault.

1 31. (Previously Presented) The system of claim 10, wherein the software
2 comprises operating system software.

1 32. (Previously Presented) The system of claim ~~[[1]]~~ 3, wherein the backup
2 device is adapted to retrieve an image containing user data and operating system software
3 over the network in response to the flag.

1 33. (Previously Presented) The article of claim ~~[[27]]~~ 28, wherein storing the
2 retrieved data comprises storing the retrieved image containing the user data and
3 operating system software in the portions of the storage device other than the portions
4 that are identified to be defective by the scan.